Features

- Carbon element
- Metal housing
- 15-60 mm travel
- Single and dual gang
- Center detent option
- Dust cover option
- RoHS compliant*

PTA Series - Low Profile Slide Potentiometer

Electrical Characteristics

Taper.............................................Linear, audio
Standard Resistance Range
...........................................1 K ohms to 1 M ohms
Standard Resistance Tolerance.....±20 %
Residual Resistance
.................................500 ohms or 1 % max.
Insulation Resistance
........Min. 100 megohms at 250 V DC

Environmental Characteristics

Operating Temperature
.....................................-10 °C to +50 °C
Power Rating, Linear
15 mm ........................................0.05 W (0.025 W Dual Gang)
20 mm ........................................0.1 W (0.05 W)
30 mm ........................................0.2 W (0.1 W)
45 mm ........................................0.25 W (0.125 W)
60 mm ........................................0.25 W (0.125 W)
Power Rating, Audio
15 mm ........................................0.025 W (0.015 W Dual Gang)
20 mm ........................................0.05 W (0.025 W)
30 mm ........................................0.1 W (0.05 W)
45 mm ........................................0.125 W (0.06 W)
60 mm ........................................0.125 W (0.06 W)
Maximum Operating Voltage, Linear
15 mm .........................................100 V DC
20-60 mm ..................................200 V DC
Maximum Operating Voltage, Audio
15 mm .........................................50 V DC
20-60 mm ..................................150 V DC
Withstand Voltage, Audio
........................................1 Min. at 300 V AC
Sliding Noise .................100 mV maximum
Tracking Error ..........3 dB at -40 to 0 dB

Mechanical Characteristics

Operating Force .................30 to 250 g-cm
Stop Strength .................5 kg-cm min.
Sliding Life .....................15,000 cycles
Soldering Condition .........300 °C max. within 3 seconds
Travel .............................15, 20, 30, 45, 60 mm

Derating Curve

<table>
<thead>
<tr>
<th>Ambient Temperature (°C)</th>
<th>Rating Power Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>100</td>
</tr>
<tr>
<td>20</td>
<td>70</td>
</tr>
<tr>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>60</td>
<td>30</td>
</tr>
<tr>
<td>80</td>
<td>20</td>
</tr>
<tr>
<td>100</td>
<td>10</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.

Lever Style & Product Dimensions

Actuator Styles
DP METAL LEVER
CP METAL LEVER
CI INSULATED LEVER

How To Order

PTA 15 4 3 - 2 0 10 DP B 203

Model
- Stroke Length
  - 15 = 15 mm
  - 20 = 20 mm
  - 30 = 30 mm
  - 45 = 45 mm
  - 60 = 60 mm
- Dust Cover Option
  - 4 = No Dust Cover
  - 5 = Rubber Dust Cover**
- No. of Gangs
  - 3 = Single Gang
  - 4 = Dual Gang
- Pin Style
  - 2 = PC Pins Down Facing
- Center Detent Option
  - 0 = No Detent
  - 2 = Center Detent
- Standard Lever Length
  - See Table
- Resistance Taper
  - A = Audio Taper
  - B = Linear Taper
- Resistance Code (See Table)

Other styles available.
** Part numbers with dust covers must be mounted with screws to a panel to prevent issues with the dust cover during usage.

Standard Resistance Table

<table>
<thead>
<tr>
<th>Resistance Code</th>
<th>Resistance (Ohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>1,000</td>
</tr>
<tr>
<td>200</td>
<td>2,000</td>
</tr>
<tr>
<td>500</td>
<td>5,000</td>
</tr>
<tr>
<td>1000</td>
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</tr>
<tr>
<td>1000000</td>
<td>1,000,000</td>
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</table>

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Optional Dust Cover

<table>
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<tr>
<th>Dimensions: MM (INCHES)</th>
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<tbody>
<tr>
<td>59 ± 0.5</td>
</tr>
<tr>
<td>(2.323 ± .020)</td>
</tr>
<tr>
<td>8.2 ± 0.2</td>
</tr>
<tr>
<td>(0.323 ± .008)</td>
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NOTE: DUST COVER HAS ADHESIVE BACK.
PTA Series - Low Profile Slide Potentiometer

Product Dimensions

PTAx043

Digiteherns: MM

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>Travel</th>
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</thead>
<tbody>
<tr>
<td>PTA1543</td>
<td>30</td>
<td>(1.18)</td>
<td>26</td>
<td>(1.02)</td>
<td>17.8</td>
<td>(.700)</td>
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<tr>
<td>PTA2044</td>
<td>35</td>
<td>(1.37)</td>
<td>31</td>
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<td>22.8</td>
<td>(.897)</td>
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<td>PTA3043</td>
<td>45</td>
<td>(1.77)</td>
<td>41</td>
<td>(1.61)</td>
<td>32.8</td>
<td>(1.29)</td>
</tr>
<tr>
<td>PTA4543</td>
<td>60</td>
<td>(2.36)</td>
<td>56</td>
<td>(2.20)</td>
<td>47.8</td>
<td>(1.88)</td>
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<tr>
<td>PTA6043</td>
<td>75</td>
<td>(2.95)</td>
<td>71</td>
<td>(2.79)</td>
<td>62.8</td>
<td>(2.47)</td>
</tr>
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</table>

PTAx044

Dimeherns: MM

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
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<th>C</th>
<th>D</th>
<th>E</th>
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Schematic

REV. 12/14

Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

For more information about this product, visit our website at: www.potentiometers.com

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